Table of Contents

Three-Year Warranty 1
Introduction 2-3
A Proper Fit 3
Electronic Control Center 4
Using Your Stethoscope 4-8
- Powering Up 5
- Changing Modes 5
- Changing Volume 6
- Auto Shut Off 6-7
- Powering Off 7
- Memory Feature 8

Replacing the Batteries 9
Replacing the Diaphragm 10
Replacing the Eartips 11
ID Name Tag 11
Care, Cleaning and Maintenance 12
Troubleshooting 13
Specifications 14

Thank you for purchasing a MABIS Signature Electronic Stethoscope. Please carefully read the operating and cleaning instructions to ensure that your new stethoscope will provide years of durability and reliable performance.

Three-Year Limited Warranty

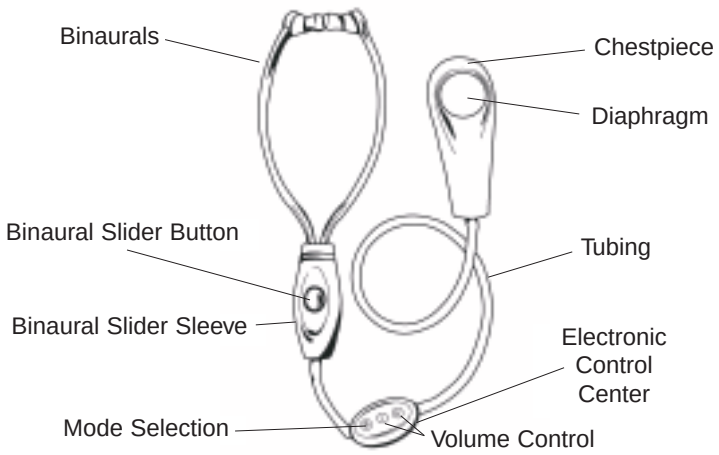
This MABIS Stethoscope is guaranteed to be free from manufacturing defects for a period of three years from the date of purchase under normal use.
MABIS Healthcare determines that the unit failed to operate due to a manufacturing defect, the unit will be repaired or replaced at
the option of MABIS Healthcare. Repair or replacement of the unit is the sole remedy under this limited warranty. This warranty gives you specific legal rights, which vary from state to state. As a condition of this warranty, the enclosed warranty registration card must be completed and sent to us within 10 days of the purchase date.

This Limited Warranty constitutes MABIS Healthcare's only responsibility and obligation to repair and/or replace materials or components. We make no other express or implied warranties, arising by operation of law or otherwise, or any warranty of merchantability or fitness for a particular use or purpose whether or not the use or purpose has been disclosed to MABIS Healthcare in specifications, drawings or otherwise, and whether or not MABIS Healthcare's products are specifically designed and/or manufactured by MABIS Healthcare for the buyer's use or purposes, except for the limited warranty stated above. MABIS will not be responsible for any indirect, incidental, special, consequential, or punitive damages or other loss, including, but not limited to, damage to or loss of other property or equipment and personal injuries, whether to purchaser or others. MABIS shall in no event be liable to the purchaser for any amount in excess of the cost of repair and/or replacement of the unit.

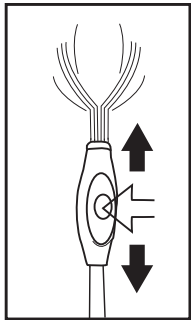
Your MABIS Signature Electronic Stethoscope offers state-of-the-art technology with volume amplification and sound filtering systems. Sounds that are typically difficult to identify in standard stethoscopes can easily be heard.

Your Electronic Stethoscope is equipped with a built-in computer chip. Through this chip, aphonic and resonance effects are eliminated. Audio frequency is divided into three modes: Standard Bell, Diaphragm and Extended Diaphragm. Additionally, the electronic amplifying system adjusts for eight different volumes.

The illustration below identifies the key parts to your Electronic Stethoscope.



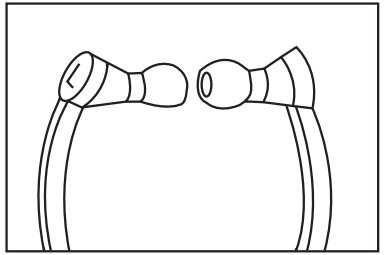
Your Electronic Stethoscope is designed with an adjustable Binaural Slider Sleeve for controlling the angle of the binaural. Press the Binaural Slider Button and slide the sleeve up or down for comfort and proper position.



A Proper Fit

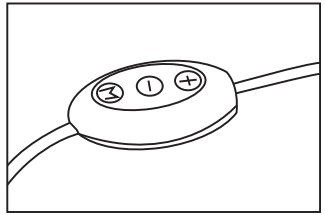
The binaurals on your Electronic Stethoscope are anatomically designed for superior acoustics, reliability and comfort.

When inserting into the ear canals, make sure that the eartips are facing forward. In addition, the binaural end caps are embossed with "L" (left) and "R" (right) to ensure proper positioning.



Electronic Control Center

Your Electronic Stethoscope features an independent Electronic Control Center, which is separate from the auscultation head. This diminishes operating noise caused by button manipulation, creating a more precise method of sound collection.



Using Your Stethoscope

Your Electronic Stethoscope is set with the following factory-set default settings:

	SETTING
Mode	Bell
Volume Level	4
Memory Function	ON
Auto-Shut Off	ON

At any time you can return to the default settings by pressing "-" and "+" simultaneously for approximately three (3) seconds. The Orange, Green and Yellow lights will each flash once indicating the change.

Using Your Stethoscope

POWERING UP

To turn the Electronic Stethoscope on:

1. Press the “+” button located at the bottom of the Control Center.
2. The green and orange lights will flash three (3) times.
3. The Mode and Volume level will be set at the setting previously used prior to the Electronic Stethoscope being turned off.

CHANGING MODES

Frequency Modes are identified by the following lights:

Yellow	Extended Range
Orange	Bell
Green	Diaphragm

To change Modes:

1. Press the “M” button to select the next frequency mode.
2. Modes will change sequence as follows:

Yellow → Green → Orange → Yellow

FUNCTION	BUTTON	PRESS BUTTON	DISPLAY	FLASHES
MODE change	“M”	Once	Yellow → Green → Orange → Yellow	Mode light changes in sequence

CHANGING VOLUME

Eight (8) volume levels can be selected in each Mode.
Press the “+” button to raise volume level.
Press the “-” button to lower the volume level.

1. While in the Bell (Orange) Mode, the orange light will flash once to indicate a change in the volume level.
2. While in the Diaphragm (Green) Mode, the green light will flash once to indicate a change in the volume level.
3. While in the Extended (Yellow) Mode, the yellow light will flash once to indicate a change in the volume level.
4. Adjust the volume to minimum (1) or maximum (8) by sound.

FUNCTION	BUTTON	PRESS BUTTON	VOLUME LEVELS	FLASHES
ADJUST VOLUME	“+” or “-”	ONCE	1-8	MODE LIGHT FLASHES ONCE

AUTO SHUT OFF

To extend the battery life, your Electronic Stethoscope comes with an auto-off function that will automatically turn the unit off after approximately 100 seconds after the last keyed operation.

To deactivate this feature, press the “-” and “M” button simultaneously for approximately three (3) seconds. The Yellow and Orange lights will flash three (3) times to indicate that the auto-off feature has been disabled.

AUTO SHUT OFF (continued)

The Electronic Stethoscope can be powered off by pressing the “M” button for approximately three (3) seconds; however, it is recommended that you enable the auto-off function prior to storing. To reactivate this feature, press the “-” and “M” buttons simultaneously for approximately three (3) seconds. The Yellow and Orange lights will flash twice to indicate that the auto-off feature has been reactivated.

FUNCTION	BUTTON	PRESS BUTTON	YELLOW LIGHT (EXTENDED MODE)	ORANGE LIGHT (BELL MODE)	GREEN LIGHT (DIAPHRAGM MODE)
Deactivate Auto Shut Off	“-” and “M”	Approximately 3 seconds	✷	✷	

Flashes 3 times consecutively

Reactivate Auto Shut Off	“-” and “M”	Approximately 3 seconds	✷	✷	

Flashes 2 times consecutively

POWER OFF

Press the “M” button for approximately 3 seconds to turn the stethoscope off.

FUNCTION	BUTTON	PRESS BUTTON	YELLOW LIGHT (EXTENDED MODE	ORANGE LIGHT (BELL MODE)	GREEN LIGHT (DIAPHRAGM MODE)
Power Off	“M”	Approximately 3 seconds	✷	✷	✷

MEMORY FEATURE

Your Electronic Stethoscope will automatically start in the most recently used sound mode and volume level when it is turned on.

To deactivate this feature, press the “+” and “M” buttons simultaneously for approximately three (3) seconds. The Yellow and Green lights will flash three (3) times to indicate that the memory feature has been disabled. Your stethoscope will return to the factory default settings when you restart it.

	SETTING
Mode	Bell
Volume Level	4
Memory Function	ON
Auto-Shut Off	ON

To restore the auto memory feature, press the “+” and “M” buttons simultaneously for over three (3) seconds. The Yellow and Green lights will flash two (2) times.

FUNCTION	BUTTON	PRESS BUTTON	YELLOW LIGHT (EXTENDED MODE)	ORANGE LIGHT (BELL MODE)	GREEN LIGHT (DIAPHRAGM MODE)
Deactivate Memory	“+” and “M”	Approximately 3 seconds	✷		✷

Flashes 3 times consecutively

Reactivate Memory	“+” and “M”	Approximately 3 seconds	✷		✷

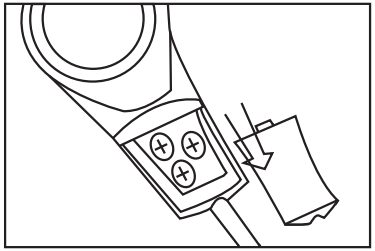
Flashes 2 times consecutively

Replacing the Batteries

The batteries need to be replaced when the Yellow and Orange lights remain illuminated when the Electronic Stethoscope is turned on. Replace the batteries with three (3) LR44 batteries or equivalent.

To replace the batteries in your Electronic Stethoscope:

1. Slide the battery cover away from the chestpiece.
2. Remove the three (3) batteries and properly dispose.
3. Insert three (3) new batteries with the positive (+) side facing up.
4. Carefully slide the battery cap into place.



NOTE: We recommend that you remove the batteries if the Electronic Stethoscope will not be used for an extended period of time.

FUNCTION	YELLOW LIGHT (EXTENDED MODE)	ORANGE LIGHT (BELL MODE)	GREEN LIGHT (DIAPHRAGM MODE)	FLASHES
Low battery	✷	✷		3 times

Replacing the Diaphragm

Under normal conditions, it is not necessary to remove the rim and diaphragm for cleaning since the diaphragm can easily be cleaned with an isopropyl alcohol wipe. If, however, it is necessary to remove the rim and diaphragm, carefully follow these instructions:

Rim and Diaphragm Removal:

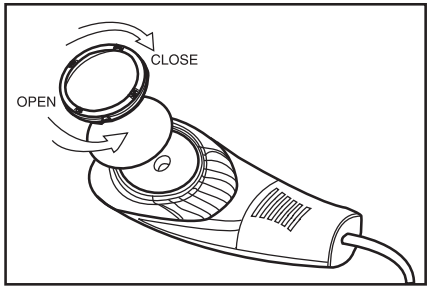
1. Using the palm of your hand, gently press down on the rim.
2. Twist the rim counterclockwise to remove both the rim and the diaphragm *(See diagram below).*

Cleaning the Rim and Diaphragm:

1. Remove the diaphragm from the ring. The diaphragm can be cleaned with mild soapy water or isopropyl alcohol.
2. Carefully wipe down the chestpiece with isopropyl alcohol, making sure not to saturate the chestpiece. Excess moisture will damage the electrical components inside the chestpiece and void your warranty.

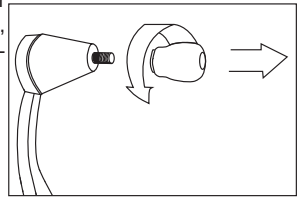
Rim and Diaphragm Reassembly:

1. Once the rim and diaphragm are completely dry, place the diaphragm into the inside of the rim.
2. Position the rim and diaphragm onto the chestpiece. Twist the rim clockwise to reattach it to the chestpiece.

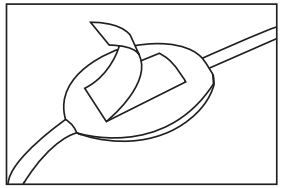


Replacing the Eartips

An extra pair of eartips are provided with your Electronic Stethoscope. To replace eartips, unscrew the tips and replace with the alternative pair.



ID Name Tag



Your Electronic Stethoscope features a specially designed ID tag on the backside of the Control Box. This offers the opportunity to personalize your Electronic Stethoscope.

Care, Cleaning and Maintenance

Note: Failure to follow these recommendations may result in reliability problems, cause damage to the internal components of your Electronic Stethoscope and void your warranty. Internal damage may cause malfunction ranging from a slight decrease in auditory response to complete failure of the Electronic Stethoscope.

- To extend the life of your Electronic Stethoscope, avoid extreme changes in temperature, solvents and oils.
- Eartips, binaurals, plastic tubing, control box and chestpiece can be cleaned with a soft cloth and isopropyl alcohol.
- Do not immerse your Stethoscope into any liquid or use high thermal sterilization processes.
- Eartips should be removed for a more thorough cleaning.
- Use only LR44 batteries or equivalent.
- Do not disassemble or attempt to repair the Electronic Stethoscope.
- Recommended storage temperature conditions are -4°F - 140°F (-20°C - 60°C) and 15% to 95% relative humidity.
- Recommended usage temperature conditions are -5°F - 60°F (-21°C - 16°C) and 20% to 95% relative humidity.

Troubleshooting

CONDITION	POSSIBLE CAUSE	CORRECTIVE ACTION
Will not switch on.	Dead batteries or improperly installed batteries.	Check batteries. Replace all three (3) batteries if necessary.
Will not change modes.	Batteries are weak.	Replace all three (3) batteries.
Device is ON, but cannot hear sounds.	The volume may be set too low.	Increase the volume using the “+” button.
High background noise	The volume setting may be too high.	Reduce the volume using the “-” button.
It is difficult to hear sounds.	Volume is set too low. The stethoscope is set in the wrong Mode.	Use the “+” button to increase the volume. Use the “M” button to change the Mode.

Specifications

Name and Model	MABIS® Signature Electronic Stethoscope, 10-400-020
Sound Amplifier	3 dB ±2% of each volume level
Storage Temperature	-4°F - 140°F (-20°C - 60°C) and 15% to 95% relative humidity
Usage Temperature	23°F - 140°F (-5°C - 60°C) and 20% to 95% relative humidity
Latex-Free	This product does not contain any latex ingredients
Eartips	Two pairs of screw-on plastic eartips are included
Dimensions	22” Y-tubing
Batteries	(3) LR44 or equivalent

The MABIS Signature Electronic Stethoscope meets the norms:
EN IEC 60601-01, EN EC 60601-1-2 (EMC), and EN IEC 60601-1-4

Production certified ISO9002/EN460002.ISO13488

The MABIS Signature Electronic Stethoscope is a medical appliance of class CL 1 and complies with the relevant norms of the guideline MDD93/42/EEC.

Specifications subject to change without notice.

#91-032-400 08/07
©2007 MABIS Healthcare

ActiveForever.com
Discount Therapy Equipment, Medical Equipment & Supplies
SCOTTSDALE 480-767-6800 · 1-800-377-8033 · PEORIA 623-215-8470